ELSEVIER

Author Index for Volumes 51–54

Achard, F., Estreguil, C.: Forest Classification of Southeast Asia Using NOAA AVHRR Data, 54:198

Adams, J. B., Sabol, D. E., Kapos, V., Filho, R. A., Roberts, D. A., Smith, M. O., Gillespie, A. R.: Classification of Multispectral Images Based on Fractions of Endmembers: Application to Land-Cover Change in the Brazilian Amazon, 52:137

Ahl, D.: *See* Feldman, S. C.

Ahl, D.: *See* Sader, S. A.

Alley, R. B.: *See* Shuman, C. A.

Amar, F.: *See* Karam, M. A.

An, P., Chung, C. F., Rencz, A. N.: Digital Lithology Mapping from Airborne Geophysical and Remote Sensing Data in the Melville Peninsula, Northern Canada, Using a Neural Network Approach, 53:76

Anandakrishnan, S.: *See* Shuman, C. A.

Andreoli, G.: *See* Jacquemoud, S.

Andrieu, B.: *See* Jacquemoud, S.

Aronoff, A. D.: *See* Orwig, L. P.

Askari, F., Donato, T., Keller, W. C.: Airborne Scatterometer Detection of Winds and Sea Surface Roughness Changes across the Gulf Stream Front, 53:31

Asrar, G.: *See* Sellers, P. J.

Bailey, G. B.: *See* Justice, C. O.

Baldwin, D.: *See* Privette, J. L.

Baret, F., Clevers, J. G. P. W., Steven, M. D.: The Robustness of Canopy Gap Fraction Estimates from Red and Near-Infrared Reflectances: A Comparison of Approaches, 54:141

Baret, F.: *See* Jacquemoud, S.

Barker, H. W.: A Spectral Analysis of Albedo and Bidirectional Reflectances for Inhomogeneous Clouds, 54:113

Bauer, M. E.: Editorial, 54:169

Bausch, W. C.: *See* Price, J. C.

Beaudoin, A.: *See* Karam, M. A.

Benallegue, M., Taconet, O., Vidal-Madjar, D., Normand, N.: The Use of Radar Backscattering Signals for Measuring Soil Moisture and Surface Roughness, 53:61

Bessemoulin, P.: *See* Prince, S. D.

Birsco, B.: *See* Smith, A. M.

Bonan, G. B.: Land–Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, 51:57

Bourgeau-Chavez, L. L.: *See* Harrell, P. A.

Bracaglia, M., Ferrazzoli, P., Guerriero, L.: A Fully Polarimetric Multiple Scattering Model for Crops, 54:170

Brakke, T.: *See* Otterman, J.

Breon, F-M.: *See* Roujean, J-L.

Bretherton, F. P.: *See* Sellers, P. J.

Brouwer, J.: *See* Prince, S. D.

Brown, C. W., Esaias, W. E., Thompson, A. M.: Predicting Phytoplankton Composition from Space—Using the Ratio of Euphotic Depth to Mixed-Layer Depth: An Evaluation, 53:172

Brown, R. J.: *See* Smith, A. M.

Bruguier, N.: *See* Wigneron, J-P.

Burgess, D. W., Lewis, P., Muller, J.-P. A. L.: Topographic Effects in AVHRR NDVI Data, 54:223

Cabot, F.: *See* Moran, M. S.

Cabot, F.: *See* Qi, J.

Calvet, J-C., Wigneron, J-P., Chanzy, A., Haboudane, D.: Retrieval of Surface Parameters from Microwave Radiometry over Open Canopies at High Frequencies, 53:46

Calvet, J-C.: *See* Raju, S.

Calvet, J-C.: *See* Wigneron, J-P.

Canossi, I.: *See* Zibordi, G.

Capehart, W. J.: *See* Carlson, T. N.

Carlson, T. N., Capehart, W. J., Gillies, R. R.: A New Look at the Simplified Method for Remote Sensing of Daily Evapotranspiration, 54:161

Cavazos, I.: *See* Everitt, J. H.

Chanzy, A.: *See* Calvet, J-C.

Chanzy, A.: *See* Raju, S.

Chanzy, A.: *See* Wigneron, J-P.

Chauhan, N.: *See* Engman, E. T.

Chen, K. S., Yen, S. K., Huang, W. P.: A Simple Model for Retrieving Bare Soil Moisture from Radar-Scattering Coefficients, 54:121

Chen, Z.: *See* Elvidge, C. D.

Chorowicz, J., Luxey, P., Rudant, J. P., Lyberis, N., Yürür, T., Gündoğdu, N.: Slip-Motion Estimation along the Ovacik Fault near Erzincan (Turkey) Using ERS-1

REMOTE SENS. ENVIRON. 54:338–343 (1995)
©Elsevier Science Inc., 1995
655 Avenue of the Americas, New York, NY 10010

0034-4257 / 95 / $9.50
SSDI 0034-4257(95)00247-2

Radar Image: Evidence of Important Deformation inside the Turkish Plate, 52:66
Choudhury, B. J., DiGirolamo, N. E.: Quantifying the Effect of Emissivity on the Relations Between AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water Over Land Surfaces, 54:313
Choudhury, B. J., Dorman, T. J., Hsu, A. Y.: Modeled and Observed Relations between the AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water over Land Surfaces, 51:281
Christensen, N. L., Jr.: *See* Harrell, P. A.
Chung, C. F.: *See* An, P.
Cierniewski, J.: *See* Verbrugghe, M.
Clarke, T. R.: *See* Moran, M. S.
Clevers, J. G. P. W.: *See* Baret, F.
Corrigendum: 53:132
Cruise, J. F.: *See* Miller, R. L.

Danson, F. M.: *See* Jacquemoud, S.
Davis, A.: *See* Marshak, A.
Davis, F. W.: *See* Friedl, M. A.
Davis, M. R.: *See* Everitt, J. H.
Dedieu, G.: *See* Moulin, S.
Dedieu, G.: *See* Qi, J.
Dedieu, J-P.: *See* Fily, M.
DeFries, R., Hansen, M., Townshend, J.: Global Discrimination of Land Cover Types from Metrics Derived from AVHRR Pathfinder Data, 54:209
Delecolle, R.: *See* Moulin, S.
Diak, G.: Comments on "Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface", 54:168
Dickinson, R. E.: Land Processes in Climate Models, 51:27
Dickinson, R. E.: *See* Sellers, P. J.
DiGirolamo, N. E.: *See* Choudhury, B. J.
Divakarla, M.: *See* Norman, J. M.
Dobson, M. C., Ulaby, F. T., Pierce, L. E.: Land-Cover Classification and Estimation of Terrain Attributes Using Synthetic Aperture Radar, 51:199
Dolman, A. J.: *See* Prince, S. D.
Donato, T.: *See* Askari, F.
Dorman, T. J.: *See* Choudhury, B. J.

Ellingson, R. G.: Surface Longwave Fluxes from Satellite Observations: A Critical Review, 51:89
Ellingson, R. G.: *See* Sellers, P. J.
Elvidge, C. D., Chen, Z.: Comparison of Broad-Band and NarrowBand Red and Near-Infrared Vegetation Indices, 54:38
Emery, W. J.: *See* Oleson, K. W.
Emery, W. J.: *See* Privette, J. L.
Engman, E. T., Chauhan, N.: Status of Microwave Soil Moisture Measurements with Remote Sensing, 51:189
Engman, E. T.: *See* Hall, F. G.
Engman, E. T.: *See* Prince, S. D.
Epiphanio, J. C. N., Huete, A. R.: Dependence of NDVI and SAVI on Sun / Sensor Geometry and Its Effect on fAPAR Relationships in Alfalfa, 51:351
Esaias, W. E.: *See* Brown, C. W.
Escobar, D. E.: *See* Everitt, J. H.
Estreguil, C.: *See* Achard, F.
Everitt, J. H., Escobar, D. E., Cavazos, I., Noriega, J. R., Davis, M. R.: A Three-Camera Multispectral Digital Video Imaging System, 54:333

Falconer, A.: *See* Ramsey, R. D.
Feldman, S. C., Pelletier, R. E., Walser, E., Smoot, J. C., Ahl, D.: A Prototype for Pipeline Routing Using Remotely Sensed Data and Geographic Information System Analysis, 53:123
Ferrazzoli, P.: *See* Bracaglia, M.
Field, C. B., Randerson, J. T., Malmström, C. M.: Global Net Primary Production: Combining Ecology and Remote Sensing, 51:74
Field, C. B.: *See* Sellers, P. J.
Filho, R. A.: *See* Adams, J. B.
Filoso, S.: *See* Wang, Y.
Fily, M., Dedieu, J-P., Surdyk, S.: A SAR Image Study of a SnowCovered Area in the French Alps, 51:253
Fischer, A.: *See* Moulin, S.
Fowler, C.: *See* Privette, J. L.
French, N. H. F.: *See* Harrell, P. A.
French, N. H. F.: *See* Kasischke, E. S.
Friedl, M. A., Davis, F. W., Michaelsen, J., Moritz, M. A.: Scaling and Uncertainty in the Relationship Between the NDVI and Land Surface Biophysical Variables: An Analysis Using a Scene Simulation Model and Data from FIFE, 54:233
Frouin, R., Pinker, R. T.: Estimating Photosynthetically Active Radiation (PAR) at the Earth's Surface from Satellite Observations, 51:98
Frouin, R.: *See* Pinker, R. T.
Frouin, R.: *See* Razafimpanilo, H.Frouin, R.: *See* Simpson, J. J.
Frouin, R. J., Simpson, J. J.: Radiometric Calibration of GOES-7 VISSR Solar Channels during the GOES Pathfinder Benchmark Period, 52:95
Fung, A. K.: *See* Karam, M. A.
Galvão, L. S., Vitorello, Í., Paradella, W. R.: Spectroradiometric Discrimination of Laterites with Principal Components Analysis and Additive Modeling, 53:69

Gao, B-C., Goetz, A. F. H.: Retrieval of Equivalent Water Thickness and Information Related to Biochemical Components of Vegetation Canopies from AVIRIS Data, 52:155
Garrison, J.: *See* Oleson, K. W.
Gash, J. H. C.: *See* Prince, S. D.
Gaston, A.: *See* Lo Seen, D.
Gaston, A.: *See* Mougin, E.
Gauthier, R. P.: *See* Staenz, K.
Gemmell, F. M.: Effects of Forest Cover, Terrain, and Scale on Timber Volume Estimation with Thematic Mapper Data in a Rocky Mountain Site, 51:291
Gillespie, A. R.: *See* Adams, J. B.
Gillies, R. R.: *See* Carlson, T. N.
Giroux, J.: *See* Rivard, B.
Gobat, J. I.: *See* Simpson, J. J.
Gobron, N.: *See* Myneni, R. B.
Goel, N. S.: *See* Norman, J. M.
Goetz, A. F. H.: *See* Gao, B-C.
Goutorbe, J.-P.: *See* Prince, S. D.
Guerriero, L.: *See* Bracaglia, M.
Gündoğdu, N.: *See* Chorowicz, J.

Haboudane, D.: *See* Calvet, J-C.
Hall, D. K., Riggs, G. A., Salomonson, V. V.: Development of Methods for Mapping Global Snow Cover Using Moderate Resolution Imaging Spectroradiometer Data, 54:127
Hall, F. G., Townshend, J. R., Engman, E. T.: Status of Remote Sensing Algorithms for Estimation of Land Surface State Parameters, 51:138
Hall, F. G.: *See* Sellers, P. J.
Hanan, N. P., Prince, S. D., Holben, B. N.: Atmospheric Correction of AVHRR Data for Biophysical Remote Sensing of the Sahel, 51:306
Hansen, M.: *See* DeFries, R.
Harrell, P. A., Bourgeau-Chavez, L. L., Kasischke, E. S., French, N. H. F., Christensen, N. L., Jr.: Sensitivity of ERS-1 and JERS-1 Radar Data to Biomass and Stand Structure in Alaskan Boreal Forest, 54:247
Henderson, F. M.: An Analysis of Settlement Characterization in Central Europe Using SIR-B Radar Imagery, 54:61
Henkel, J.: *See* Wever, T.
Hess, L. L.: *See* Wang, Y.
Hiernaux, P.: *See* Lo Seen, D.
Hiernaux, P.: *See* Mougin, E.
Hoepffner, M.: *See* Prince, S. D.
Holben, B. N.: *See* Hanan, N. P.
Holt, H. D., Jr.: *See* Orwig, L. P.
Hosgood, B.: *See* Jacquemoud, S.
Hsu, A. Y.: *See* Choudhury, B. J.
Huang, W. P.: *See* Chen, K. S.
Huang, X., Jin, Y-Q.: A Simple Method To Estimate the Soil Wetness and Surface Roughness by Using Active / Passive Microwave Data, 53:212
Huemmrich, K. F.: *See* Sellers, P. J.
Huete, A. R.: *See* Epiphanio, J. C. N.
Hunt, E. R., Jr.: *See* Running, S. W.
Huynh, D. D.: *See* Kwok, R.

Iacobellis, S. F.: *See* Razafimpanilo, H.
Iaquinta, J.: *See* Myneni, R. B.
Ibsen, P. M.: *See* Orwig, L. P.

Jackson, R. D.: *See* Moran, M. S.
Jackson, T. J., Le Vine, D. M., Swift, C. T., Schmugge, T. J., Schiebe, F. R.: Large Area Mapping of Soil Moisture Using the ESTAR Passive Microwave Radiometer in Washita'92, 54:27
Jacquemoud, S., Baret, F., Andrieu, B., Danson, F. M., Jaggard, K.: Extraction of Vegetation Biophysical Parameters by Inversion of the PROSPECT + SAIL Models on Sugar Beet Canopy Reflectance Data. Application to TM and AVIRIS Sensors, 52:163
Jacquemoud, S., Verdebout, J., Schmuck, G., Andreoli, G., Hosgood, B.: Investigation of Leaf Biochemistry by Statistics, 54:180
Jaggard, K.: *See* Jacquemoud, S.
Jensen, J. R.: *See* Ramsey, R. D.
Jin, Y-Q.: *See* Huang, X.
Justice, C. O., Bailey, G. B., Maiden, M. E., Rasool, S. I., Strebel, D. E., Tarpley, J. D.: Recent Data and Information System Initiatives for Remotely Sensed Measurements of the Land Surface, 51:235
Justice, C. O.: *See* Sellers, P. J.

Kabat, P.: *See* Prince, S. D.
Kapos, V.: *See* Adams, J. B.
Karam, M. A., Amar, F., Fung, A. K., Mougin, E., Lopes, A., Le Vine, D. M., Beaudoin, A.: A Microwave Polarimetric Scattering Model for Forest Canopies Based on Vector Radiative Transfer Theory, 53:16
Kasischke, E. S., French, N. H. F.: Locating and Estimating the Areal Extent of Wildfires in Alaskan Boreal Forests Using Multiple-Season AVHRR NDVI Composite Data, 51:263
Kasischke, E. S.: *See* Harrell, P. A.
Keller, J., Lamprecht, R.: Road Dust as an Indicator for Air Pollution Transport and Deposition: An Application of SPOT Imagery, 54:1
Keller, R. H.: *See* Simpson, J. J.

Keller, W. C.: *See* Askari, F.
Kerr, Y.: *See* Raju, S.
Kerr, Y. H.: *See* Prince, S. D.
Kim, M. S.: *See* Markham, B. L.
Kimes, D. S.: *See* Myneni, R. B.
Knight, A. W.: REMA: A Neutral Model to Reveal Patterns and Processes of Cover Change in Wooded Rangelands, 52:1
Kresic, N.: Remote Sensing of Tectonic Fabric Controlling Groundwater Flow in Dinaric Karst, 53:85
Kuusk, A.: A Fast, Invertible Canopy Reflectance Model, 51:342
Kwok, R., Nghiem, S. V., Yueh, S. H., Huynh, D. D.: Retrieval of Thin Ice Thickness from Multifrequency Polarimetric SAR Data, 51:361

Laguerre, L.: *See* Raju, S.
Lambin, E. F.: *See* Mayaux, P.
Lamprecht, R.: *See* Keller, J.
Law, B. E.: Estimation of Leaf Area Index and Light Intercepted by Shrubs from Digital Videography, 51: 276
Lebel, T.: *See* Prince, S. D.
Le Vine, D. M.: *See* Karam, M. A.
Le Vine, D. M.: *See* Jackson, T. J.
Lewis, P.: *See* Burgess, D. W.
Li, Z.: *See* Pinker, R. T.
Liou, W-S.: *See* Sader, S. A.
Lomax, A. S., Lubin, D., Whritner, R. H.: The Potential for Interpreting Total and Multiyear Ice Concentrations in SSM/I 85.5 GHz Imagery, 54:13
Lopes, A.: *See* Karam, M. A.
López-Blanco, J., Villers-Ruiz, L.: Delineating Boundaries of Environmental Units for Land Management Using a Geomorphological Approach and GIS: A Study in Baja California, Mexico, 53:109
Lo Seen, D., Mougin, E., Rambal, S., Gaston, A., Hiernaux, P.: A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. II: Toward the Control of Its Simulations by Remotely Sensed Indices, 52:194
Lo Seen, D.: *See* Mougin, E.
Loveland, T. R.: *See* Running, S. W.
Lubin, D.: *See* Lomax, A. S.
Luxey, P.: *See* Chorowicz, J.
Lyberis, N.: *See* Chorowicz, J.

Maggion, S.: *See* Myneni, R. B.
Maiden, M. E.: *See* Justice, C. O.
Major, D. J.: *See* Smith, A. M.
Malmström, C. M.: *See* Field, C. B.
Maney, H. D.: *See* Orwig, L. P.
Markham, B. L., Williams, D. L., Schafer, J. R., Wood, F., Kim, M. S.: Radiometric Characterization of Diode-Array Field Spectroradiometers, 51:317
Markham, B. L.: *See* Moran, M. S.
Markham, B. L.: *See* Starks, P. J.
Marshak, A., Davis, A., Wiscombe, W., Titov, G.: The Verisimilitude of the Independent Pixel Approximation Used in Cloud Remote Sensing, 52:71
Mayaux, P., Lambin, E. F.: Estimation of Tropical Forest Area from Coarse Spatial Resolution Data: A Two-Step Correction Function for Proportional Errors Due to Spatial Aggregation, 53:1
McNeil, R. L.: *See* Smith, A. M.
Meeson, B. W.: *See* Sellers, P. J.
Melack, J. M.: *See* Sellers, P. J.
Melack, J. M.: *See* Wang, Y.
Meloni, G. P.: *See* Zibordi, G.
Michaelsen, J.: *See* Friedl, M. A.
Miller, R. L., Cruise, J. F.: Effects of Suspended Sediments on Coral Growth: Evidence from Remote Sensing and Hydrologic Modeling, 53:177
Monteny, B.: *See* Prince, S. D.
Moran, M. S., Jackson, R. D., Clarke, T. R., Qi, J., Cabot, F., Thome, K. J., Markham, B. L.: Reflectance Factor Retrieval from Landsat TM and SPOT HRV Data for Bright and Dark Targets, 52:218
Moran, M. S.: *See* Qi, J.
Moritz, M. A.: *See* Friedl, M. A.
Mougin, E., Lo Seen, D., Rambal, S., Gaston, A., Hiernaux, P.: A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. I: Model Description and Validation, 52:181
Mougin, E.: *See* Karam, M. A.
Mougin, E.: *See* Lo Seen, D.
Moulin, S., Fischer, A., Dedieu, G., Delécolle, R.: Temporal Variations in Satellite Reflectances at Field and Regional Scales Compared With Values Simulated by Linking Crop Growth and SAIL Models, 54:261
Muller, J.-P. A. L.: *See* Burgess, D. W.
Murphy, R. E.: *See* Sellers, P. J.
Myneni, R. B., Maggion, S., Iaquinta, J., Privette, J. L., Gobron, N., Pinty, B., Kimes, D. S., Verstraete, M. M., Williams, D. L.: Optical Remote Sensing of Vegetation: Modeling, Caveats, and Algorithms, 51:169

Nemani, R. R.: *See* Running, S. W.
Nghiem, S. V.: *See* Kwok, R.
Noriega, J. R.: *See* Everitt, J. H.
Norman, J. M., Divakarla, M., Goel, N. S.: Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, 51:157
Normand, N.: *See* Benallegue, M.

O'Brien, J. D.: *See* Orwig, L. P.
Oleson, K. W., Sarlin, S., Garrison, J., Smith, S., Privette, J. L., Emery, W. J.: Unmixing Multiple Land-Cover Type Reflectances from Coarse Spatial Resolution Satellite Data, 54:98
Orwig, L. P., Aronoff, A. D., Ibsen, P. M., Maney, H. D., O'Brien, J. D., Holt, H. D., Jr.: Wide-Area Terrain Surveying with Interferometric SAR, 53:97
Otterman, J., Brakke, T., Smith, J.: Effects of Leaf Transmittance versus Leaf-Reflectance on Bidirectional Scattering from Canopy / Soil Surface: An Analytical Study, 54:49

Paradella, W. R.: *See* Galvão, L. S.
Pelletier, R. E.: *See* Feldman, S. C.
Pettigrew-Crosby, R. E.: *See* Yoder, B. J.
Petty, G. W.: The Status of Satellite-Based Rainfall Estimation over Land, 51:125
Pierce, L. E.: *See* Dobson, M. C.
Pierce, L. L.: *See* Running, S. W.
Pinker, R. T., Frouin, R., Li, Z.: A Review of Satellite Methods to Derive Surface Shortwave Irradiance, 51:108
Pinker, R. T.: *See* Frouin, R.
Pinty, B.: *See* Myneni, R. B.
Price, J. C., Bausch, W. C.: Leaf Area Index Estimation from Visible and Near-Infrared Reflectance Data, 52:55
Prince, S. D., Kerr, Y. H., Goutorbe, J.-P., Lebel, T., Tinga, A., Bessemoulin, P., Brouwer, J., Dolman, A. J., Engman, E. T., Gash, J. H. C., Hoepffner, M., Kabat, P., Monteny, B., Said, F., Sellers, P., Wallace, J.: Geographical, Biological, and Remote Sensing Aspects of the Hydrologic Atmospheric Pilot Experiment in the Sahel (HAPEX-Sahel), 51:215
Prince, S. D.: *See* Hanan, N. P.
Privette, J. L., Fowler, C., Wick, G. A., Baldwin, D., Emery, W. J.: Effects of Orbital Drift on Advanced Very High Resolution Radiometer Products: Normalized Difference Vegetation Index and Sea Surface Temperature, 53:164
Privette, J. L.: *See* Myneni, R. B.
Privette, J. L.: *See* Oleson, K. W.

Qi, J., Cabot, F., Moran, M. S., Dedieu, G.: Biophysical Parameter Estimations Using Multidirectional Spectral Measurements, 54:71
Qi, J., Moran, M. S., Cabot, F., Dedieu, G.: Normalization of Sun / View Angle Effects Using Spectral Albedo-Based Vegetation Indices, 52:207
Qi, J.: *See* Moran, M. S.

Raju, S., Chanzy, A., Wigneron, J-P., Calvet, J-C., Kerr, Y., Laguerre, L.: Soil Moisture and Temperature Profile Effects on Microwave Emission at Low Frequencies, 54:85
Rambal, S.: *See* Lo Seen, D.
Rambal, S.: *See* Mougin, E.
Ramsey, R. D., Falconer, A., Jensen, J. R.: The Relationship between NOAA-AVHRR NDVI and Ecoregions in Utah, 53:188
Randerson, J. T.: *See* Field, C. B.
Rasool, S. I.: *See* Justice, C. O.
Razafimpanilo, H., Frouin, R., Iacobellis, S. F., Somerville, R. C. J.: Methodology for Estimating Burned Area from AVHRR Reflectance Data, 54:273
Rencz, A. N.: *See* An, P.
Riggs, G. A.: *See* Hall, D. K.
Ritchie, J. C.: Airborne Laser Altimeter Measurements of Landscape Topography, 53:91
Rivard, B., Thomas, P. J., Giroux, J.: Precise Emissivity of Rock Samples, 54:152
Roberts, D. A.: *See* Adams, J. B.
Roujean, J-L., Breon, F-M.: Estimating PAR Absorbed by Vegetation from Bidirectional Reflectance Measurements, 51:375
Roulet, N. T.: *See* Sellers, P. J.
Rudant, J. P.: *See* Chorowicz, J.
Running, S. W., Loveland, T. R., Pierce, L. L., Nemani, R. R., Hunt, E. R., Jr.: A Remote Sensing Based Vegetation Classification Logic for Global Land Cover Analysis, 51:39

Sabol, D. E.: *See* Adams, J. B.
Sader, S. A., Ahl, D., Liou, W-S.: Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, 53:133
Said, F.: *See* Prince, S. D.
Salomonson, V. V.: *See* Hall, D. K.
Salvi, S.: Analysis and Interpretation of Landsat Synthetic Stereo Pair for the Detection of Active Fault Zones in the Abruzzi Region (Central Italy), 53:153
Sarlin, S.: *See* Oleson, K. W.
Schafer, J. R.: *See* Markham, B. L.
Schiebe, F. R.: *See* Jackson, T. J.
Schiebe, F. R.: *See* Starks, P. J.
Schiffer, R. A.: *See* Sellers, P. J.
Schimel, D. S.: Terrestrial Biogeochemical Cycles: Global Estimates with Remote Sensing, 51:49
Schimel, D. S.: *See* Sellers, P. J.
Schmuck, G.: *See* Jacquemoud, S.
Schmugge, T. J.: *See* Jackson, T. J.
Sellers, P.: Foreword: Remote Sensing of Land Surface for Studies of Global Change, 51:1
Sellers, P.: *See* Prince, S. D.
Sellers, P. J., Meeson, B. W., Hall, F. G., Asrar, G., Murphy, R. E., Schiffer, R. A., Bretherton, F. P., Dick-

inson, R. E., Ellingson, R. G., Field, C. B., Huemmrich, K. F., Justice, C. O., Melack, J. M., Roulet, N. T., Schimel, D. S., Try, P. D.: Remote Sensing of the Land Surface for Studies of Global Change: Models—Algorithms—Experiments, 51:3
Shuman, C. A., Alley, R. B., Anandakrishnan, S., Stearns, C. R.: An Empirical Technique for Estimating Near-Surface Air Temperature Trends in Central Greenland from SSM/I Brightness Temperatures, 51:245
Simpson, J. J., Gobat, J. I.: Improved Cloud Detection in GOES Scenes over Land, 52:36
Simpson, J. J., Gobat, J. I.: Improved Cloud Detection in GOES Scenes over the Oceans, 52:79
Simpson, J. J., Gobat, J. I., Frouin, R.: Improved Destriping of GOES Images Using Finite Impulse Response Filters, 52:15
Simpson, J. J., Keller, R. H.: An Improved Fuzzy Logic Segmentation of Sea Ice, Clouds and Ocean in Remotely Sensed Arctic Imagery, 54:290
Simpson, J. J.: *See* Frouin, R. J.
Smiatek, G.: Sampling Thematic Mapper Imagery for Land Use Data, 52:116
Smith, A. M., Major, D. J., McNeil, R. L., Willms, W. D., Birsco, B., Brown, R. J.: Complementarity of Radar and Visible-Infrared Sensors in Assessing Rangeland Condition, 52:173
Smith, J.: *See* Otterman, J.
Smith, M. O.: *See* Adams, J. B.
Smith, S.: *See* Oleson, K. W.
Smoot, J. C.: *See* Feldman, S. C.
Somerville, R. C. J.: *See* Razafimpanilo, H.
Staenz, K., Gauthier, R. P., Williams, D. J., Teillet, P. M.: The Behavior of the Anisotropic Reflectance of a Pecan Orchard Derived from Multiview and Multiscale Imaging Spectrometer Data, 52:122
Starks, P. J., Walter-Shea, E. A., Schiebe, F. R., Markham, B. L.: Temperature Sensitivity Characterization of a Silicon Diode Array Spectrometer, 51:385
Stearns, C. R.: *See* Shuman, C. A.
Steven, M. D.: *See* Baret, F.Strebel, D. E.: *See* Justice, C. O.
Surdyk, S.: *See* Fily, M.
Swift, C. T.: *See* Jackson, T. J.

Taconet, O.: *See* Benallegue, M.
Tarpley, J. D.: *See* Justice, C. O.
Teillet, P. M.: *See* Staenz, K.
Thomas, P. J.: *See* Rivard, B.
Thome, K. J.: *See* Moran, M. S.
Thompson, A. M.: *See* Brown, C. W.
Tinga, A.: *See* Prince, S. D.
Titov, G.: *See* Marshak, A.
Townshend, J.: *See* DeFries, R.
Townshend, J. R.: *See* Hall, F. G.
Try, P. D.: *See* Sellers, P. J.

Ulaby, F. T.: *See* Dobson, M. C.

Van Woert, M.: *See* Zibordi, G.
Verbrugghe, M., Cierniewski, J.: Effects of Sun and View Geometries on Cotton Bidirectional Reflectance. Test of a Geometrical Model, 54:189
Verdebout, J.: *See* Jacquemoud, S.
Verstraete, M. M.: *See* Myneni, R. B.
Vidal-Madjar, D.: *See* Benallegue, M.
Villers-Ruiz, L.: *See* López-Blanco, J.
Vitorello, Í.: *See* Galvão, L. S.

Wallace, J.: *See* Prince, S. D.
Walser, E.: *See* Feldman, S. C.
Walter-Shea, E. A.: *See* Starks, P. J.
Wang, Y., Hess, L. L., Filoso, S., Melack, J. M.: Understanding the Radar Backscattering from Flooded and Nonflooded Amazonian Forests: Results from Canopy Backscatter Modeling, 54:324
Wever, T., Henkel, J.: Evaluation of the AIRSAR System for Soil Moisture Analysis, 53:118
Whritner, R. H.: *See* Lomax, A. S.
Wick, G. A.: *See* Privette, J. L.
Wigneron, J-P., Chanzy, A., Calvet, J-C., Bruguier, N.: A Simple Algorithm to Retrieve Soil Moisture and Vegetation Biomass Using Passive Microwave Measurements over Crop Fields, 51:331
Wigneron, J-P.: *See* Calvet, J-C.
Wigneron, J-P.: *See* Raju, S.
Williams, D. J.: *See* Staenz, K.
Williams, D. L.: *See* Markham, B. L.
Williams, D. L.: *See* Myneni, R. B.
Willms, W. D.: *See* Smith, A. M.
Wiscombe, W.: *See* Marshak, A.
Wood, F.: *See* Markham, B. L.

Yen, S. K.: *See* Chen, K. S.
Yoder, B. J., Pettigrew-Crosby, R. E.: Predicting Nitrogen and Chlorophyll Content and Concentrations from Reflectance Spectra (400–2500 nm) at Leaf and Canopy Scales, 53:199
Yueh, S. H.: *See* Kwok, R.
Yürür, T.: *See* Chorowicz, J.

Zibordi, G., Van Woert, M., Meloni, G. P., Canossi, I.: Intercomparisons of Sea Ice Concentration from SSM/I and AVHRR Data of the Ross Sea, 53:145

ELSEVIER

Subject Index for Volumes 51–54

Algorithms and Modeling

Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, J. M. Norman, M. Divakarla, and N. S. Goel, 51:157

Effects of Suspended Sediments on Coral Growth: Evidence from Remote Sensing and Hydrologic Modeling, R. L. Miller and J. F. Cruise, 53:177

Estimation of Tropical Forest Area from Coarse Spatial Resolution Data: A Two-Step Correction Function for Proportional Errors Due to Spatial Aggregation, P. Mayaux and E. F. Lambin, 53:1

A Fast, Invertible Canopy Reflectance Model, A. Kuusk, 51:342

Global Net Primary Production: Combining Ecology and Remote Sensing, C. B. Field, J. T. Randerson, and C. M. Malmström, 51:74

Land–Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57

Land Processes in Climate Models, R. E. Dickinson, 51:27

A Microwave Polarimetric Scattering Model for Forest Canopies Based on Vector Radiative Transfer Theory, M. A. Karam, F. Amar, A. K. Fung, E. Mougin, A. Lopes, D. M. Le Vine, and A. Beaudoin, 53:16

A New Look at the Simplified Method for Remote Sensing of Daily Evapotranspiration, T. N. Carlson, W. J. Capehart, and R. R. Gillies, 54:161

Optical Remote Sensing of Vegetation: Modeling, Caveats, and Algorithms, R. B. Myneni, S. Maggion, J. Iaquinta, J. L. Privette, N. Gobron, B. Pinty, D. S. Kimes, M. M. Verstraete, and D. L. Williams, 51:169

Predicting Phytoplankton Composition from Space—Using the Ratio of Euphotic Depth to Mixed-Layer Depth: An Evaluation, C. W. Brown, W. E. Esaias, and A. M. Thompson, 53:172

A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. I: Model Description and Validation, E. Mougin, D. Lo Seen, S. Rambal, A. Gaston, and P. Hiernaux, 52:181

A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. II: Toward the Control of Its Simulations by Remotely Sensed Indices, D. Lo Seen, E. Mougin, S. Rambal, A. Gaston, and P. Hiernaux, 52:194

REMA: A Neutral Model to Reveal Patterns and Processes of Cover Change in Wooded Rangelands, A. W. Knight, 52:1

Remote Sensing of the Land Surface for Studies of Global Change: Models—Algorithms—Experiments, P. J. Sellers, B. W. Meeson, F. G. Hall, G. Asrar, R. E. Murphy, R. A. Schiffer, F. P. Bretherton, R. E. Dickinson, R. G. Ellingson, C. B. Field, K. F. Huemmrich, C. O. Justice, J. M. Melack, N. T. Roulet, D. S. Schimel, and P. D. Try, 51:3

Scaling and Uncertainty in the Relationship Between the NDVI and Land Surface Biophysical Variables: An Analysis Using a Scene Simulation Model and Data from FIFE, M. A. Friedl, F. W. Davis, J. Michaelsen, and M. A. Moritz, 54:233

A Simple Algorithm to Retrieve Soil Moisture and Vegetation Biomass Using Passive Microwave Measurements over Crop Fields, J-P. Wigneron, A. Chanzy, J-C. Calvet, and N. Bruguier, 51:331

A Simple Model for Retrieving Bare Soil Moisture from Radar-Scattering Coefficients, K. S. Chen, S. K. Yen, and W. P. Huang, 54:121

Status of Remote Sensing Algorithms for Estimation of Land Surface State Parameters, F. G. Hall, J. R. Townshend, and E. T. Engman, 51:138

Temporal Variations in Satellite Reflectances at Field and Regional Scales Compared With Values Simulated by Linking Crop Growth and SAIL Models, S. Moulin, A. Fischer, G. Dedieu, and R. Delécolle, 54:261

Unmixing Multiple Land-Cover Type Reflectances from Coarse Spatial Resolution Satellite Data, K. W. Oleson, S. Sarlin, J. Garrison, S. Smith, J. L. Privette, and W. J. Emery, 54:98

The Verisimilitude of the Independent Pixel Approximation Used in Cloud Remote Sensing, A. Marshak, A. Davis, W. Wiscombe, and G. Titov, 52:71

Altimetry

Airborne Laser Altimeter Measurements of Landscape Topography, J. C. Ritchie, 53:91

REMOTE SENS. ENVIRON. 54:344–353 (1995)
©Elsevier Science Inc., 1995
655 Avenue of the Americas, New York, NY 10010

0034-4257 / 95 / $9.50
SSDI 0034-4257(95)00248-0

Area Estimation
Estimation of Tropical Forest Area from Coarse Spatial Resolution Data: A Two-Step Correction Function for Proportional Errors Due to Spatial Aggregation, P. Mayaux and E. F. Lambin, 53:1
Atmosphere
Atmospheric Correction of AVHRR Data for Biophysical Remote Sensing of the Sahel, N. P. Hanan, S. D. Prince, and B. N. Holben, 51:306
Geographical, Biological, and Remote Sensing Aspects of the Hydrologic Atmospheric Pilot Experiment in the Sahel (HAPEX-Sahel), S. D. Prince, Y. H. Kerr, J.-P. Goutorbe, T. Lebel, A. Tinga, P. Bessemoulin, J. Brouwer, A. J. Dolman, E. T. Engman, J. H. C. Gash, M. Hoepffner, P. Kabat, B. Monteny, F. Said, P. Sellers, and J. Wallace, 51:215
Land—Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57
Modeled and Observed Relations between the AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water over Land Surfaces, B. J. Choudhury, T. J. Dorman, and A. Y. Hsu, 51:281
Quantifying the Effect of Emissivity on the Relations Between AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water Over Land Surfaces, B. J. Choudhury and N. E. DiGirolamo, 53:313

AVHRR
Effects of Orbital Drift on Advanced Very High Resolution Radiometer Products: Normalized Difference Vegetation Index and Sea Surface Temperature, J. L. Privette, C. Fowler, G. A. Wick, D. Baldwin, and W. J. Emery, 53:164
Estimation of Tropical Forest Area from Coarse Spatial Resolution Data: A Two-Step Correction Function for Proportional Errors Due to Spatial Aggregation, P. Mayaux and E. F. Lambin, 53:1
Forest Classification of Southeast Asia Using NOAA AVHRR Data, F. Achard and C. Estreguil, 54:198
Global Discrimination of Land Cover Types from Metrics Derived from AVHRR Pathfinder Data, R. DeFries, M. Hansen, and J. Townshend, 54:209
Intercomparisons of Sea Ice Concentration from SSM/I and AVHRR Data of the Ross Sea, G. Zibordi, M. Van Woert, G. P. Meloni, and I. Canossi, 53:145
Locating and Estimating the Areal Extent of Wildfires in Alaskan Boreal Forests Using Multiple-Season AVHRR NDVI Composite Data, E. S. Kasischke and N. H. F. French, 51:263
Methodology for Estimating Burned Area from AVHRR Reflectance Data, H. Razafimpanilo, R. Frouin, S. F. Iacobellis, and R. C. J. Somerville, 54:273
Modeled and Observed Relations between the AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water over Land Surfaces, B. J. Choudhury, T. J. Dorman, and A. Y. Hsu, 51:281
The Relationship between NOAA-AVHRR NDVI and Ecoregions in Utah, R. D. Ramsey, A. Falconer, and J. R. Jensen, 53:188
Topographic Effects in AVHRR NDVI Data, D. W. Burgess, P. Lewis, and J.-P. A. L. Muller, 54:223
Unmixing Multiple Land-Cover Type Reflectances from Coarse Spatial Resolution Satellite Data, K. W. Oleson, S. Sarlin, J. Garrison, S. Smith, J. L. Privette, and W. J. Emery, 54:98
Biogeochemistry
Land—Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57
Terrestrial Biogeochemical Cycles: Global Estimates with Remote Sensing, D. S. Schimel, 51:49
Change Detection
Classification of Multispectral Images Based on Fractions of Endmembers: Application to Land-Cover Change in the Brazilian Amazon, J. B. Adams, D. E. Sabol, V. Kapos, R. A. Filho, D. A. Roberts, M. O. Smith, and A. R. Gillespie, 52:137
REMA: A Neutral Model to Reveal Patterns and Processes of Cover Change in Wooded Rangelands, A. W. Knight, 52:1
Climate
Land—Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57
Land Processes in Climate Models, R. E. Dickinson, 51:27
Clouds
Improved Cloud Detection in GOES Scenes over Land, J. J. Simpson and J. I. Gobat, 52:36
Improved Cloud Detection in GOES Scenes over the Oceans, J. J. Simpson and J. I. Gobat, 52:79
An Improved Fuzzy Logic Segmentation of Sea Ice, Clouds and Ocean in Remotely Sensed Arctic Imagery, J. J. Simpson and R. H. Keller, 54:290
A Spectral Analysis of Albedo and Bidirectional Reflectances for Inhomogeneous Clouds, H. W. Barker, 54:113
The Verisimilitude of the Independent Pixel Approximation Used in Cloud Remote Sensing, A. Marshak, A. Davis, W. Wiscombe, and G. Titov, 52:71

Crop
A Fully Polarimetric Multiple Scattering Model for Crops, M. Bracaglia, P. Ferrazzoli, and L. Guerriero, 54:170
A Simple Algorithm to Retrieve Soil Moisture and Vegetation Biomass Using Passive Microwave Measurements over Crop Fields, J-P. Wigneron, A. Chanzy, J-C. Calvet, and N. Bruguier, 51:331
Temporal Variations in Satellite Reflectances at Field and Regional Scales Compared With Values Simulated by Linking Crop Growth and SAIL Models, S. Moulin, A. Fischer, G. Dedieu, and R. Delécolle, 54:261
Ecosystem
Global Net Primary Production: Combining Ecology and Remote Sensing, C. B. Field, J. T. Randerson, and C. M. Malmström, 51:74
Land–Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57
A Remote Sensing Based Vegetation Classification Logic for Global Land Cover Analysis, S. W. Running, T. R. Loveland, L. L. Pierce, R. R. Nemani, and E. R. Hunt, Jr., 51:39
Remote Sensing of the Land Surface for Studies of Global Change: Models–Algorithms–Experiments, P. J. Sellers, B. W. Meeson, F. G. Hall, G. Asrar, R. E. Murphy, R. A. Schiffer, F. P. Bretherton, R. E. Dickinson, R. G. Ellingson, C. B. Field, K. F. Huemmrich, C. O. Justice, J. M. Melack, N. T. Roulet, D. S. Schimel, and P. D. Try, 51:3
Editorial
Editorial, M. E. Bauer, 54:169
Emissivity
Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, J. M. Norman, M. Divakarla, and N. S. Goel, 51:157
Precise Emissivity of Rock Samples, B. Rivard, P. J. Thomas, and J. Giroux, 54:152
Quantifying the Effect of Emissivity on the Relations Between AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water Over Land Surfaces, B. J. Choudhury and N. E. DiGirolamo, 54:313
Energy Balance
Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, J. M. Norman, M. Divakarla, and N. S. Goel, 51:157
Evapotranspiration
A New Look at the Simplified Method for Remote Sensing of Daily Evapotranspiration, T. N. Carlson, W. J. Capehart, and R. R. Gillies, 54:161
Fires
Locating and Estimating the Areal Extent of Wildfires in Alaskan Boreal Forests Using Multiple-Season AVHRR NDVI Composite Data, E. S. Kisischke and N. H. F. French, 51:263
Methodology for Estimating Burned Area from AVHRR Reflectance Data, H. Razafimpanilo, R. Frouin, S. F. Iacobellis, and R. C. J. Somerville, 54:273
Forests
Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, S. A. Sader, D. Ahl, and W-S. Liou, 53:133
Effects of Forest Cover, Terrain, and Scale on Timber Volume Estimation with Thematic Mapper Data in a Rocky Mountain Site, F. M. Gemmell, 51:291
Estimation of Tropical Forest Area from Coarse Spatial Resolution Data: A Two-Step Correction Function for Proportional Errors Due to Spatial Aggregation, P. Mayaux and E. F. Lambin, 53:1
Forest Classification of Southeast Asia Using NOAA AVHRR Data, F. Achard and C. Estreguil, 53:198
A Microwave Polarimetric Scattering Model for Forest Canopies Based on Vector Radiative Transfer Theory, M. A. Karam, F. Amar, A. K. Fung, E. Mougin, A. Lopes, D. M. Le Vine, and A. Beaudoin, 53:16
Sensitivity of ERS-1 and JERS-1 Radar Data to Biomass and Stand Structure in Alaskan Boreal Forest, P. A. Harrell, L. L. Bourgeau-Chavez, E. S. Kasischke, N. H. F. French, and N. L. Christensen, Jr., 54:247
Understanding the Radar Backscattering from Flooded and Nonflooded Amazonian Forests: Results from Canopy Backscatter Modeling, Y. Wang, L. L. Hess, S. Filoso, and J. M. Melack, 54:324
Foreword: Global Change Special Issue
Foreword: Remote Sensing of Land Surface for Studies of Global Change, P. Sellers, 51:1
Geographic Information Systems
Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, S. A. Sader, D. Ahl, and W-S. Liou, 53:133
Delineating Boundaries of Environmental Units for Land Management Using a Geomorphological Approach and GIS: A Study in Baja California, Mexico, J. López-Blanco and L. Villers-Ruiz, 53:109
A Prototype for Pipeline Routing Using Remotely Sensed Data and Geographic Information System Analysis, S. C. Feldman, R. E. Pelletier, E. Walser, J. C. Smoot, and D. Ahl, 53:123
Geology
Analysis and Interpretation of Landsat Synthetic Stereo Pair for the Detection of Active Fault Zones in the Abruzzi Region (Central Italy), S. Salvi, 53:153

Digital Lithology Mapping from Airborne Geophysical and Remote Sensing Data in the Melville Peninsula, Northern Canada, Using a Neural Network Approach, P. An, C. F. Chung, and A. N. Rencz, 53:76

A New Look at the Simplified Method for Remote Sensing of Daily Evapotranspiration, T. N. Carlson, W. J. Capehart, and R. R. Gillies, 54:161

Remote Sensing of Tectonic Fabric Controlling Groundwater Flow in Dinaric Karst, N. Kresic, 53:85

Slip-Motion Estimation along the Ovacik Fault near Erzincan (Turkey) Using ERS-1 Radar Image: Evidence of Important Deformation inside the Turkish Plate, J. Chorowicz, P. Luxey, J. P. Rudant, N. Lyberis, T. Yürür, and N. Gündoğdu, 52:66

Spectroradiometric Discrimination of Laterites with Principal Components Analysis and Additive Modeling, L. S. Galvão, Í. Vitorello, and W. R. Paradella, 53:70

Global Change

Foreword: Remote Sensing of Land Surface for Studies of Global Change, P. Sellers, 51:1

Global Discrimination of Land Cover Types from Metrics Derived from AVHRR Pathfinder Data, R. DeFries, M. Hansen, and J. Townshend, 54:209

Global Net Primary Production: Combining Ecology and Remote Sensing, C. B. Field, J. T. Randerson, and C. M. Malmström, 51:74

Recent Data and Information System Initiatives for Remotely Sensed Measurements of the Land Surface, C. O. Justice, G. B. Bailey, M. E. Maiden, S. I. Rasool, D. E. Strebel, and J. D. Tarpley, 51:235

A Remote Sensing Based Vegetation Classification Logic for Global Land Cover Analysis, S. W. Running, T. R. Loveland, L. L. Pierce, R. R. Nemani, and E. R. Hunt, Jr., 51:39

Remote Sensing of the Land Surface for Studies of Global Change: Models—Algorithms—Experiments, P. J. Sellers, B. W. Meeson, F. G. Hall, G. Asrar, R. E. Murphy, R. A. Schiffer, F. P. Bretherton, R. E. Dickinson, R. G. Ellingson, C. B. Field, K. F. Huemmrich, C. O. Justice, J. M. Melack, N. T. Roulet, D. S. Schimel, and P. D. Try, 51:3

Terrestrial Biogeochemical Cycles: Global Estimates with Remote Sensing, D. S. Schimel, 51:49

GOES

Improved Cloud Detection in GOES Scenes over Land, J. J. Simpson and J. I. Gobat, 52:36

Improved Cloud Detection in GOES Scenes over the Oceans, J. J. Simpson and J. I. Gobat, 52:79

Improved Destriping of GOES Images Using Finite Impulse Response Filters, J. J. Simpson, J. I. Gobat, and R. Frouin, 52:15

Radiometric Calibration of GOES-7 VISSR Solar Channels during the GOES Pathfinder Benchmark Period, R. J Frouin and J. J. Simpson, 52:95

Hydrology

Effects of Suspended Sediments on Coral Growth: Evidence from Remote Sensing and Hydrologic Modeling, R. L. Miller and J. F. Cruise, 53:177

Geographical, Biological, and Remote Sensing Aspects of the Hydrologic Atmospheric Pilot Experiment in the Sahel (HAPEX-Sahel), S. D. Prince, Y. H. Kerr, J.-P. Goutorbe, T. Lebel, A. Tinga, P. Bessemoulin, J. Brouwer, A. J. Dolman, E. T. Engman, J. H. C. Gash, M. Hoepffner, P. Kabat, B. Monteny, F. Said, P. Sellers, and J. Wallace, 51:215

Ice

An Improved Fuzzy Logic Segmentation of Sea Ice, Clouds and Ocean in Remotely Sensed Arctic Imagery, J. J. Simpson and R. H. Keller, 54:290

Intercomparisons of Sea Ice Concentration from SSM/I and AVHRR Data of the Ross Sea, G. Zibordi, M. Van Woert, G. P. Meloni, and I. Canossi, 53:145

The Potential for Interpreting Total and Multiyear Ice Concentrations in SSM/I 85.5 GHz Imagery, A. S. Lomax, D. Lubin, and R. H. Whritner, 54:13

Retrieval of Thin Ice Thickness from Multifrequency Polarimetric SAR Data, R. Kwok, S. V. Nghiem, S. H. Yueh, and D. D. Huynh, 51:361

Image Processing

Digital Lithology Mapping from Airborne Geophysical and Remote Sensing Data in the Melville Peninsula, Northern Canada, Using a Neural Network Approach, P. An, C. F. Chung, and A. N. Rencz, 53:76

Improved Destriping of GOES Images Using Finite Impulse Response Filters, J. J. Simpson, J. I. Gobat, and R. Frouin, 52:15

An Improved Fuzzy Logic Segmentation of Sea Ice, Clouds and Ocean in Remotely Sensed Arctic Imagery, J. J. Simpson and R. H. Keller, 54:290

Image Spectrometry

The Behavior of the Anisotropic Reflectance of a Pecan Orchard Derived from Multiview and Multiscale Imaging Spectrometer Data, K. Staenz, R. P. Gauthier, D. J. Williams, and P. M. Teillet, 52:122

Development of Methods for Mapping Global Snow Cover Using Moderate Resolution Imaging Spectroradiometer Data, D. K. Hall, G. A. Riggs, and V. V. Salomonson, 54:127

Extraction of Vegetation Biophysical Parameters by Inversion of the PROSPECT + SAIL Models on Sugar Beet Canopy Reflectance Data. Application to TM and AVIRIS Sensors, S. Jacquemoud, F. Baret, B. Andrieu, F. M. Danson, and K. Jaggard, 52:163

Retrieval of Equivalent Water Thickness and Information Related to Biochemical Components of Vegetation Canopies from AVIRIS Data, B-C. Gao and A. F. H. Goetz, 52:155

Information Systems

Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, S. A. Sader, D. Ahl, and W-S. Liou, 53:133

Delineating Boundaries of Environmental Units for Land Management Using a Geomorphological Approach and GIS: A Study in Baja California, Mexico, J. López-Blanco and L. Villers-Ruiz, 53:109

Foreword: Remote Sensing of Land Surface for Studies of Global Change, P. Sellers, 51:1

A Prototype for Pipeline Routing Using Remotely Sensed Data and Geographic Information System Analysis, S. C. Feldman, R. E. Pelletier, E. Walser, J. C. Smoot, and D. Ahl, 53:123

Surface Longwave Fluxes from Satellite Observations: A Critical Review, R. G. Ellingson, 51:89

Land Classification

Classification of Multispectral Images Based on Fractions of Endmembers: Application to Land-Cover Change in the Brazilian Amazon, J. B. Adams, D. E. Sabol, V. Kapos, R. A. Filho, D. A. Roberts, M. O. Smith, and A. R. Gillespie, 52:137

Complementarity of Radar and Visible-Infrared Sensors in Assessing Rangeland Condition, A. M. Smith, D. J. Major, R. L. McNeil, W. D. Willms, B. Birsco, and R. J. Brown, 52:173

Delineating Boundaries of Environmental Units for Land Management Using a Geomorphological Approach and GIS: A Study in Baja California, Mexico, J. López-Blanco and L. Villers-Ruiz, 53:109

Global Discrimination of Land Cover Types from Metrics Derived from AVHRR Pathfinder Data, R. DeFries, M. Hansen, and J. Townshend, 54:209

Land-Cover Classification and Estimation of Terrain Attributes Using Synthetic Aperture Radar, M. C. Dobson, F. T. Ulaby, and L. E. Pierce, 51:199

A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. I: Model Description and Validation, E. Mougin, D. Lo Seen, S. Rambal, A. Gaston, and P. Hiernaux, 52:181

A Regional Sahelian Grassland Model To Be Coupled with Multispectral Satellite Data. II: Toward the Control of Its Simulations by Remotely Sensed Indices, D. Lo Seen, E. Mougin, S. Rambal, A. Gaston, and P. Hiernaux, 52:194

The Relationship between NOAA-AVHRR NDVI and Ecoregions in Utah, R. D. Ramsey, A. Falconer, and J. R. Jensen, 53:188

A Remote Sensing Based Vegetation Classification Logic for Global Land Cover Analysis, S. W. Running, T. R. Loveland, L. L. Pierce, R. R. Nemani, and E. R. Hunt, Jr., 51:39

Sampling Thematic Mapper Imagery for Land Use Data, G. Smiatek, 52:116

Wide-Area Terrain Surveying with Interferometric SAR, L. P. Orwig, A. D. Aronoff, P. M. Ibsen, H. D. Maney, J. D. O'Brien, and H. D. Holt, Jr., 53:97

Land Surface

Land Processes in Climate Models, R. E. Dickinson, 51:27

A Remote Sensing Based Vegetation Classification Logic for Global Land Cover Analysis, S. W. Running, T. R. Loveland, L. L. Pierce, R. R. Nemani, and E. R. Hunt, Jr., 51:39

Remote Sensing of the Land Surface for Studies of Global Change: Models—Algorithms—Experiments, P. J. Sellers, B. W. Meeson, F. G. Hall, G. Asrar, R. E. Murphy, R. A. Schiffer, F. P. Bretherton, R. E. Dickinson, R. G. Ellingson, C. B. Field, K. F. Huemmrich, C. O. Justice, J. M. Melack, N. T. Roulet, D. S. Schimel, and P. D. Try, 51:3

Scaling and Uncertainty in the Relationship Between the NDVI and Land Surface Biophysical Variables: An Analysis Using a Scene Simulation Model and Data from FIFE, M. A. Friedl, F. W. Davis, J. Michaelsen, and M. A. Moritz, 54:233

Status of Remote Sensing Algorithms for Estimation of Land Surface State Parameters, F. G. Hall, J. R. Townshend, and E. T. Engman, 51:138

Landsat

Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, S. A. Sader, D. Ahl, and W-S. Liou, 53:133

Analysis and Interpretation of Landsat Synthetic Stereo Pair for the Detection of Active Fault Zones in the Abruzzi Region (Central Italy), S. Salvi, 53:153

Complementarity of Radar and Visible-Infrared Sensors in Assessing Rangeland Condition, A. M. Smith, D. J. Major, R. L. McNeil, W. D. Willms, B. Birsco, and R. J. Brown, 52:173

Effects of Forest Cover, Terrain, and Scale on Timber Volume Estimation with Thematic Mapper Data in a Rocky Mountain Site, F. M. Gemmell, 51:291

Extraction of Vegetation Biophysical Parameters by Inversion of the PROSPECT + SAIL Models on Sugar Beet Canopy Reflectance Data. Application to TM and AVIRIS Sensors, S. Jacquemoud, F. Baret, B. Andrieu, F. M. Danson, and K. Jaggard, 52:163

Reflectance Factor Retrieval from Landsat TM and

SPOT HRV Data for Bright and Dark Targets, M. S. Moran, R. D. Jackson, T. R. Clarke, J. Qi, F. Cabot, K. J. Thome, and B. L. Markham, 52:218
Remote Sensing of Tectonic Fabric Controlling Groundwater Flow in Dinaric Karst, N. Kresic, 53:85
Sampling Thematic Mapper Imagery for Land Use Data, G. Smiatek, 52:116

Mixture Models

Classification of Multispectral Images Based on Fractions of Endmembers: Application to Land-Cover Change in the Brazilian Amazon, J. B. Adams, D. E. Sabol, V. Kapos, R. A. Filho, D. A. Roberts, M. O. Smith, and A. R. Gillespie, 52:137
Unmixing Multiple Land-Cover Type Reflectances from Coarse Spatial Resolution Satellite Data, K. W. Oleson, S. Sarlin, J. Garrison, S. Smith, J. L. Privette, and W. J. Emery, 54:98

Oceans

Airborne Scatterometer Detection of Winds and Sea Surface Roughness Changes across the Gulf Stream Front, F. Askari, T. Donato, and W. C. Keller, 53:31
Effects of Suspended Sediments on Coral Growth: Evidence from Remote Sensing and Hydrologic Modeling, R. L. Miller and J. F. Cruise, 53:177
An Improved Fuzzy Logic Segmentation of Sea Ice, Clouds and Ocean in Remotely Sensed Arctic Imagery, J. J. Simpson and R. H. Keller, 54:290
Predicting Phytoplankton Composition from Space—Using the Ratio of Euphotic Depth to Mixed-Layer Depth: An Evaluation, C. W. Brown, W. E. Esaias, and A. M. Thompson, 53:172

Passive Microwave

An Empirical Technique for Estimating Near-Surface Air Temperature Trends in Central Greenland from SSM/I Brightness Temperatures, C. A. Shuman, R. B. Alley, S. Anandakrishnan, and C. R. Stearns, 51:245
Intercomparisons of Sea Ice Concentration from SSM/I and AVHRR Data of the Ross Sea, G. Zibordi, M. Van Woert, G. P. Meloni, and I. Canossi, 53:145
Large Area Mapping of Soil Moisture Using the ESTAR Passive Microwave Radiometer in Washita'92, T. J. Jackson, D. M. Le Vine, C. T. Swift, T. J. Schmugge, and F. R. Schiebe, 54:27
The Potential for Interpreting Total and Multiyear Ice Concentrations in SSM/I 85.5 GHz Imagery, A. S. Lomax, D. Lubin, and R. H. Whritner, 54:13
Retrieval of Surface Parameters from Microwave Radiometry over Open Canopies at High Frequencies, J-C. Calvet, J-P. Wigneron, A. Chanzy, and D. Haboudane, 53:46
A Simple Algorithm to Retrieve Soil Moisture and Vegetation Biomass Using Passive Microwave Measurements over Crop Fields, J-P. Wigneron, A. Chanzy, J-C. Calvet, and N. Bruguier, 51:331
A Simple Method To Estimate the Soil Wetness and Surface Roughness by Using Active/Passive Microwave Data, X. Huang and Y-Q. Jin, 53:212
Soil Moisture and Temperature Profile Effects on Microwave Emission at Low Frequencies, S. Raju, A. Chanzy, J-P. Wigneron, J-C. Calvet, Y. Kerr, and L. Laguerre, 54:85

Photosynthesis

Dependence of NDVI and SAVI on Sun/Sensor Geometry and Its Effect on fAPAR Relationships in Alfalfa, J. C. N. Epiphanio and A. R. Huete, 51:351
Estimating PAR Absorbed by Vegetation from Bidirectional Reflectance Measurements, J-L. Roujean and F-M. Breon, 51:375
Estimating Photosynthetically Active Radiation (PAR) at the Earth's Surface from Satellite Observations, R. Frouin and R. T. Pinker, 51:98

Radar

Airborne Scatterometer Detection of Winds and Sea Surface Roughness Changes across the Gulf Stream Front, F. Askari, T. Donato, and W. C. Keller, 53:31
An Analysis of Settlement Characterization in Central Europe Using SIR-B Radar Imagery, F. M. Henderson, 54:61
Complementarity of Radar and Visible-Infrared Sensors in Assessing Rangeland Condition, A. M. Smith, D. J. Major, R. L. McNeil, W. D. Willms, B. Birsco, and R. J. Brown, 52:173
Evaluation of the AIRSAR System for Soil Moisture Analysis, T. Wever and J. Henkel, 53:118
A Fully Polarimetric Multiple Scattering Model for Crops, M. Bracaglia, P. Ferrazzoli, and L. Guerriero, 54:170
Land-Cover Classification and Estimation of Terrain Attributes Using Synthetic Aperture Radar, M. C. Dobson, F. T. Ulaby, and L. E. Pierce, 51:199
A Microwave Polarimetric Scattering Model for Forest Canopies Based on Vector Radiative Transfer Theory, M. A. Karam, F. Amar, A. K. Fung, E. Mougin, A. Lopes, D. M. Le Vine, and A. Beaudoin, 53:16
Retrieval of Thin Ice Thickness from Multifrequency Polarimetric SAR Data, R. Kwok, S. V. Nghiem, S. H. Yueh, and D. D. Huynh, 51:361
A SAR Image Study of a Snow-Covered Area in the French Alps, M. Fily, J-P. Dedieu, and S. Surdyk, 51:253
Sensitivity of ERS-1 and JERS-1 Radar Data to Biomass and Stand Structure in Alaskan Boreal Forest, P. A.

Harrell, L. L. Bourgeau-Chavez, E. S. Kasischke, N. H. F. French, and N. L. Christensen, Jr., 54:247
A Simple Method To Estimate the Soil Wetness and Surface Roughness by Using Active / Passive Microwave Data, X. Huang and Y-Q. Jin, 53:212
Slip-Motion Estimation along the Ovacik Fault near Erzincan (Turkey) Using ERS-1 Radar Image: Evidence of Important Deformation inside the Turkish Plate, J. Chorowicz, P. Luxey, J. P. Rudant, N. Lyberis, T. Yürür, and N. Gündoğdu, 52:66
Status of Microwave Soil Moisture Measurements with Remote Sensing, E. T. Engman and N. Chauhan, 51: 189
Understanding the Radar Backscattering from Flooded and Nonflooded Amazonian Forests: Results from Canopy Backscatter Modeling, Y. Wang, L. L. Hess, S. Filoso, and J. M. Melack, 54:324
The Use of Radar Backscattering Signals for Measuring Soil Moisture and Surface Roughness, M. Benallegue, O. Taconet, D. Vidal-Madjar, and N. Normand, 53:61
Wide-Area Terrain Surveying with Interferometric SAR, L. P. Orwig, A. D. Aronoff, P. M. Ibsen, H. D. Maney, J. D. O'Brien, and H. D. Holt, Jr., 53:97

Radiation Modeling

Effects of Leaf-Transmittance versus Leaf-Reflectance on Bidirectional Scattering from Canopy / Soil Surface: An Analytical Study, J. Otterman, T. Brakke, and J. Smith, 54:49
Effects of Sun and View Geometries On Cotton Bidirectional Reflectance. Test of a Geometrical Model, M. Verbrugghe and J. Cierniewski, 54:189
Extraction of Vegetation Biophysical Parameters by Inversion of the PROSPECT + SAIL Models on Sugar Beet Canopy Reflectance Data. Application to TM and AVIRIS Sensors, S. Jacquemoud, F. Baret, B. Andrieu, F. M. Danson, and K. Jaggard, 52:163
A Fast, Invertible Canopy Reflectance Model, A. Kuusk, 51:342
A Microwave Polarimetric Scattering Model for Forest Canopies Based on Vector Radiative Transfer Theory, M. A. Karam, F. Amar, A. K. Fung, E. Mougin, A. Lopes, D. M. Le Vine, and A. Beaudoin, 53:16
Optical Remote Sensing of Vegetation: Modeling, Caveats, and Algorithms, R. B. Myneni, S. Maggion, J. Iaquinta, J. L. Privette, N. Gobron, B. Pinty, D. S. Kimes, M. M. Verstraete, and D. L. Williams, 51:169
Scaling and Uncertainty in the Relationship Between the NDVI and Land Surface Biophysical Variables: An Analysis Using a Scene Simulation Model and Data from FIFE, M. A. Friedl, F. W. Davis, J. Michaelsen, and M. A. Moritz, 54:233
A Simple Model for Retrieving Bare Soil Moisture from Radar-Scattering Coefficients, K. S. Chen, S. K. Yen, and W. P. Huang, 54:121
Temporal Variations in Satellite Reflectances at Field and Regional Scales Compared With Values Simulated by Linking Crop Growth and SAIL Models, S. Moulin, A. Fischer, G. Dedieu, and R. Delécolle, 54:261

Rainfall Estimation

The Status of Satellite-Based Rainfall Estimation over Land, G. W. Petty, 51:125

Reflectance Measurements

An Analysis of Settlement Characterization in Central Europe Using SIR-B Radar Imagery, F. M. Henderson, 54:61
The Behavior of the Anisotropic Reflectance of a Pecan Orchard Derived from Multiview and Multiscale Imaging Spectrometer Data, K. Staenz, R. P. Gauthier, D. J. Williams, and P. M. Teillet, 52:122
Dependence of NDVI and SAVI on Sun / Sensor Geometry and Its Effect on fAPAR Relationships in Alfalfa, J. C. N. Epiphanio and A. R. Huete, 51:351
Effects of Leaf-Transmittance versus Leaf-Reflectance on Bidirectional Scattering from Canopy / Soil Surface: An Analytical Study, J. Otterman, T. Brakke, and J. Smith, 54:49
Effects of Sun and View Geometries On Cotton Bidirectional Reflectance. Test of a Geometrical Model, M. Verbrugghe and J. Cierniewski, 54:189
Estimating PAR Absorbed by Vegetation from Bidirectional Reflectance Measurements, J-L. Roujean and F-M. Breon, 51:375
Leaf Area Index Estimation from Visible and Near-Infrared Reflectance Data, J. C. Price and W. C. Bausch, 52:55
Predicting Nitrogen and Chlorophyll Content and Concentrations from Reflectance Spectra (400–2500 nm) at Leaf and Canopy Scales, B. J. Yoder and R. E. Pettigrew-Crosby, 53:199
Radiometric Characterization of Diode-Array Field Spectroradiometers, B. L. Markham, D. L. Williams, J. R. Schafer, F. Wood, and M. S. Kim, 51:317
Reflectance Factor Retrieval from Landsat TM and SPOT HRV Data for Bright and Dark Targets, M. S. Moran, R. D. Jackson, T. R. Clarke, J. Qi, F. Cabot, K. J. Thome, and B. L. Markham, 52:218
A Spectral Analysis of Albedo and Bidirectional Reflectances for Inhomogeneous Clouds, H. W. Barker, 54: 113
Spectroradiometric Discrimination of Laterites with Principal Components Analysis and Additive Modeling, L. S. Galvão, Í. Vitorello, and W. R. Paradella, 53: 70

Temperature Sensitivity Characterization of a Silicon Diode Array Spectrometer, P. J. Starks, E. A. Walter-Shea, F. R. Schiebe, and B. L. Markham, 51:385

Sensor Calibration

Effects of Orbital Drift on Advanced Very High Resolution Radiometer Products: Normalized Difference Vegetation Index and Sea Surface Temperature, J. L. Privette, C. Fowler, G. A. Wick, D. Baldwin, and W. J. Emery, 53:164

Normalization of Sun / View Angle Effects Using Spectral Albedo-Based Vegetation Indices, J. Qi, M. S. Moran, F. Cabot, and G. Dedieu, 52:207

Radiometric Calibration of GOES-7 VISSR Solar Channels during the GOES Pathfinder Benchmark Period, R. J. Frouin and J. J. Simpson, 52:95

Radiometric Characterization of Diode-Array Field Spectroradiometers, B. L. Markham, D. L. Williams, J. R. Schafer, F. Wood, and M. S. Kim, 51:317

Reflectance Factor Retrieval from Landsat TM and SPOT HRV Data for Bright and Dark Targets, M. S. Moran, R. D. Jackson, T. R. Clarke, J. Qi, F. Cabot, K. J. Thome, and B. L. Markham, 52:218

Snow

Development of Methods for Mapping Global Snow Cover Using Moderate Resolution Imaging Spectroradiometer Data, D. K. Hall, G. A. Riggs, and V. V. Salomonson, 54:127

A SAR Image Study of a Snow-Covered Area in the French Alps, M. Fily, J-P. Dedieu, and S. Surdyk, 51: 253

Soil Moisture

Comments on Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, G. Diak, 54:168

Evaluation of the AIRSAR System for Soil Moisture Analysis, T. Wever and J. Henkel, 53:118

Large Area Mapping of Soil Moisture Using the ESTAR Passive Microwave Radiometer in Washita'92, T. J. Jackson, D. M. Le Vine, C. T. Swift, T. J. Schmugge, and F. R. Schiebe, 54:27

A Simple Method To Estimate the Soil Wetness and Surface Roughness by Using Active / Passive Microwave Data, X. Huang and Y-Q. Jin, 53:212

A Simple Model for Retrieving Bare Soil Moisture from Radar-Scattering Coefficients, K. S. Chen, S. K. Yen, and W. P. Huang, 54:121

Soil Moisture and Temperature Profile Effects on Microwave Emission at Low Frequencies, S. Raju, A. Chanzy, J-P. Wigneron, J-C. Calvet, Y. Kerr, and L. Laguerre, 54:85

Status of Microwave Soil Moisture Measurements with Remote Sensing, E. T. Engman and N. Chauhan, 51: 189

Temporal Variations in Satellite Reflectances at Field and Regional Scales Compared With Values Simulated by Linking Crop Growth and SAIL Models, S. Moulin, A. Fischer, G. Dedieu, and R. Delécolle, 54:261

The Use of Radar Backscattering Signals for Measuring Soil Moisture and Surface Roughness, M. Benallegue, O. Taconet, D. Vidal-Madjar, and N. Normand, 53:61

Spectral Indices

Comparison of Broad-Band and Narrow-Band Red and Near-Infrared Vegetation Indices, C. D. Elvidge and Z. Chen, 54:38

Effects of Orbital Drift on Advanced Very High Resolution Radiometer Products: Normalized Difference Vegetation Index and Sea Surface Temperature, J. L. Privette, C. Fowler, G. A. Wick, D. Baldwin, and W. J. Emery, 53:164

Normalization of Sun / View Angle Effects Using Spectral Albedo-Based Vegetation Indices, J. Qi, M. S. Moran, F. Cabot, and G. Dedieu, 52:207

A Regional Sahelian Grassland Model To Be Coupled with Comparison of Broad-Band and Narrow-Band Red and Near-Infrared Vegetation Indices, C. D. Elvidge and Z. Chen, 54:38

The Robustness of Canopy Gap Fraction Estimates from Red and Near-Infrared Reflectances: A Comparison of Approaches, F. Baret, J. G. P. W. Clevers, and M. D. Steven, 54:141

Spectroradiometry

Effects of Sun and View Geometries On Cotton Bidirectional Reflectance. Test of a Geometrical Model, M. Verbrugghe and J. Cierniewski, 54:189

Radiometric Characterization of Diode-Array Field Spectroradiometers, B. L. Markham, D. L. Williams, J. R. Schafer, F. Wood, and M. S. Kim, 51:317

Temperature Sensitivity Characterization of a Silicon Diode Array Spectrometer, P. J. Starks, E. A. Walter-Shea, F. R. Schiebe, and B. L. Markham, 51:385

SPOT

Road Dust as an Indicator for Air Pollution Transport and Deposition: An Application of SPOT Imagery, J. Keller and R. Lamprecht, 54:1

Surface Radiation

A Review of Satellite Methods to Derive Surface Shortwave Irradiance, R. T. Pinker, R. Frouin, and Z. Li, 51:108

Surface Longwave Fluxes from Satellite Observations: A Critical Review, R. G. Ellingson, 51:108

Surface Temperature

Algorithms for Extracting Information from Remote

Thermal-IR Observations of the Earth's Surface, J. M. Norman, M. Divakarla, and N. S. Goel, 51:157
Comments on Algorithms for Extracting Information from Remote Thermal-IR Observations of the Earth's Surface, G. Diak, 54:168
Effects of Orbital Drift on Advanced Very High Resolution Radiometer Products: Normalized Difference Vegetation Index and Sea Surface Temperature, J. L. Privette, C. Fowler, G. A. Wick, D. Baldwin, and W. J. Emery, 53:164
An Empirical Technique for Estimating Near-Surface Air Temperature Trends in Central Greenland from SSM/I Brightness Temperatures, C. A. Shuman, R. B. Alley, S. Anandakrishnan, and C. R. Stearns, 51:245
Quantifying the Effect of Emissivity on the Relations Between AVHRR Split Window Temperature Difference and Atmospheric Precipitable Water Over Land Surfaces, B. J. Choudhury and N. E. DiGirolamo, 54:313
Soil Moisture and Temperature Profile Effects on Microwave Emission at Low Frequencies, S. Raju, A. Chanzy, J-P. Wigneron, J-C. Calvet, Y. Kerr, and L. Laguerre, 54:85

Thematic Mapping

Accuracy of Landsat-TM and GIS Rule-Based Methods for Forest Wetland Classification in Maine, S. A. Sader, D. Ahl, and W-S. Liou, 53:133
Analysis and Interpretation of Landsat Synthetic Stereo Pair for the Detection of Active Fault Zones in the Abruzzi Region (Central Italy), S. Salvi, 53:153
An Analysis of Settlement Characterization in Central Europe Using SIR-B Radar Imagery, F. M. Henderson, 54:61
Classification of Multispectral Images Based on Fractions of Endmembers: Application to Land-Cover Change in the Brazilian Amazon, J. B. Adams, D. E. Sabol, V. Kapos, R. A. Filho, D. A. Roberts, M. O. Smith, and A. R. Gillespie, 52:137
Complementarity of Radar and Visible-Infrared Sensors in Assessing Rangeland Condition, A. M. Smith, D. J. Major, R. L. McNeil, W. D. Willms, B. Birsco, and R. J. Brown, 52:173
Delineating Boundaries of Environmental Units for Land Management Using a Geomorphological Approach and GIS: A Study in Baja California, Mexico, J. López-Blanco and L. Villers-Ruiz, 53:109
Development of Methods for Mapping Global Snow Cover Using Moderate Resolution Imaging Spectroradiometer Data, D. K. Hall, G. A. Riggs, and V. V. Salomonson, 54:127
Digital Lithology Mapping from Airborne Geophysical and Remote Sensing Data in the Melville Peninsula, Northern Canada, Using a Neural Network Approach, P. An, C. F. Chung, and A. N. Rencz, 53:76
Effects of Forest Cover, Terrain, and Scale on Timber Volume Estimation with Thematic Mapper Data in a Rocky Mountain Site, F. M. Gemmell, 51:291
Forest Classification of Southeast Asia Using NOAA AVHRR Data, F. Achard and C. Estreguil, 54:198
Land-Cover Classification and Estimation of Terrain Attributes Using Synthetic Aperture Radar, M. C. Dobson, F. T. Ulaby, and L. E. Pierce, 51:199
Locating and Estimating the Areal Extent of Wildfires in Alaskan Boreal Forests Using Multiple-Season AVHRR NDVI Composite Data, E. S. Kisischke and N. H. F. French, 51:263
A Prototype for Pipeline Routing Using Remotely Sensed Data and Geographic Information System Analysis, S. C. Feldman, R. E. Pelletier, E. Walser, J. C. Smoot, and D. Ahl, 53:123
The Relationship between NOAA-AVHRR NDVI and Ecoregions in Utah, R. D. Ramsey, A. Falconer, and J. R. Jensen, 53:188
Remote Sensing of Tectonic Fabric Controlling Groundwater Flow in Dinaric Karst, N. Kresic, 53:85
Sampling Thematic Mapper Imagery for Land Use Data, G. Smiatek, 52:116
A SAR Image Study of a Snow-Covered Area in the French Alps, M. Fily, J-P. Dedieu, and S. Surdyk, 51:253
Wide-Area Terrain Surveying with Interferometric SAR, L. P. Orwig, A. D. Aronoff, P. M. Ibsen, H. D. Maney, J. D. O'Brien, and H. D. Holt, Jr., 53:97

Topography

Airborne Laser Altimeter Measurements of Landscape Topography, J. C. Ritchie, 53:91
Topographic Effects in AVHRR NDVI Data, D. W. Burgess, P. Lewis, and J.-P. A. L. Muller, 54:223

Vegetation Properties

Biophysical Parameter Estimations Using Multidirectional Spectral Measurements, J. Qi, F. Cabot, M. S. Moran, and G. Dedieu, 54:71
Dependence of NDVI and SAVI on Sun / Sensor Geometry and Its Effect on fAPAR Relationships in Alfalfa, J. C. N. Epiphanio and A. R. Huete, 51:351
Estimating Photosynthetically Active Radiation (PAR) at the Earth's Surface from Satellite Observations, R. Frouin and R. T. Pinker, 51:98
Estimation of Leaf Area Index and Light Intercepted by Shrubs from Digital Videography, B. E. Law, 51:276
Extraction of Vegetation Biophysical Parameters by In-

version of the PROSPECT + SAIL Models on Sugar Beet Canopy Reflectance Data. Application to TM and AVIRIS Sensors, S. Jacquemoud, F. Baret, B. Andrieu, F. M. Danson, and K. Jaggard, 52:163

Geographical, Biological, and Remote Sensing Aspects of the Hydrologic Atmospheric Pilot Experiment in the Sahel (HAPEX-Sahel), S. D. Prince, Y. H. Kerr, J.-P. Goutorbe, T. Lebel, A. Tinga, P. Bessemoulin, J. Brouwer, A. J. Dolman, E. T. Engman, J. H. C. Gash, M. Hoepffner, P. Kabat, B. Monteny, F. Said, P. Sellers, and J. Wallace, 51:215

Global Net Primary Production: Combining Ecology and Remote Sensing, C. B. Field, J. T. Randerson, and C. M. Malmström, 51:74

Investigation of Leaf Biochemistry by Statistics, S. Jacquemoud, J. Verdebout, G. Schmuck, G. Andreoli, and B. Hosgood, 54:180

Land–Atmosphere Interactions for Climate System Models: Coupling Biophysical, Biogeochemical, and Ecosystem Dynamical Processes, G. B. Bonan, 51:57

Land-Cover Classification and Estimation of Terrain Attributes Using Synthetic Aperture Radar, M. C. Dobson, F. T. Ulaby, and L. E. Pierce, 51:199

Leaf Area Index Estimation from Visible and Near-Infrared Reflectance Data, J. C. Price and W. C. Bausch, 52:55

Predicting Nitrogen and Chlorophyll Content and Concentrations from Reflectance Spectra (400–2500 nm) at Leaf and Canopy Scales, B. J. Yoder and R. E. Pettigrew-Crosby, 53:199

Retrieval of Equivalent Water Thickness and Information Related to Biochemical Components of Vegetation Canopies from AVIRIS Data, B-C. Gao and A. F. H. Goetz, 52:155

Retrieval of Surface Parameters from Microwave Radiometry over Open Canopies at High Frequencies, J-C. Calvet, J-P. Wigneron, A. Chanzy, and D. Haboudane, 53:46

The Robustness of Canopy Gap Fraction Estimates from Red and Near-Infrared Reflectances: A Comparison of Approaches, F. Baret, J. G. P. W. Clevers, and M. D. Steven, 54:141

A Simple Algorithm to Retrieve Soil Moisture and Vegetation Biomass Using Passive Microwave Measurements over Crop Fields, J-P. Wigneron, A. Chanzy, J-C. Calvet, and N. Bruguier, 51:331

Status of Remote Sensing Algorithms for Estimation of Land Surface State Parameters, F. G. Hall, J. R. Townshend, and E. T. Engman, 51:138

Videography

Estimation of Leaf Area Index and Light Intercepted by Shrubs from Digital Videography, B. E. Law, 51: 276

A Three-Camera Multispectral Digital Video Imaging System, J. H. Everitt, D. E. Escobar, I. Cavazos, J. R. Noriega, and M. R. Davis, 54:333